

4.0 credits

30.0 h + 15.0 h

2q

Teacher(s) :	Louveaux Jérôme ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	<p>Main themes</p> <ol style="list-style-type: none"> <li>1. Basic concepts : different kinds of signals, transmission lines, propagation, antennas, modulation techniques.</li> <li>2. Telephon, radio and television systems.</li> <li>3. Data transmission : OSI architecture : level 1 : transmission supports, baseband, modems, multiplexers - level 2 : error detecting and correcting codes, protocols - level 3 : routing.</li> <li>4. Systems and services : voice, text and image transmission, data communications, public networks (datel, DCS, ISDN, ATM, ADSL, Internet), private networks (LAN).</li> </ol>
Aims :	<p>30h + 15h exercises and laboratory work 4 ECTS</p> <p>This course is taught in the 2nd semester Teacher : Auguste Laloux Language : French Level : basic concepts</p> <p>Aims</p> <ul style="list-style-type: none"> <li>- to have an overview of the basic techniques in communication engineering</li> <li>- to understand the present and future trends of communication engineering</li> <li>- to get a good knowledge of the main communication services and systems.</li> </ul> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Content :	See "Main themes"
Other infos :	<p>Prerequisite</p> <p>Basic knowledge in electricity (elementary circuits) and in mathematics (Fourier theory).</p> <p>Recommended : course FSAB1106, Applied mathematics : signals and systems.</p>
Cycle and year of study :	<ul style="list-style-type: none"> <li>&gt; <a href="#">Bachelor in Computer Science</a></li> <li>&gt; <a href="#">Master [120] in Electro-mechanical Engineering</a></li> <li>&gt; <a href="#">Bachelor in Information and Communication</a></li> <li>&gt; <a href="#">Bachelor in Philosophy</a></li> <li>&gt; <a href="#">Bachelor in Pharmacy</a></li> <li>&gt; <a href="#">Bachelor in Psychology and Education: General</a></li> <li>&gt; <a href="#">Bachelor in Economics and Management</a></li> <li>&gt; <a href="#">Bachelor in Motor skills : General</a></li> <li>&gt; <a href="#">Bachelor in Human and Social Sciences</a></li> <li>&gt; <a href="#">Bachelor in Sociology and Anthropology</a></li> <li>&gt; <a href="#">Bachelor in Political Sciences: General</a></li> <li>&gt; <a href="#">Bachelor in History of Art and Archaeology : General</a></li> <li>&gt; <a href="#">Bachelor in Mathematics</a></li> <li>&gt; <a href="#">Bachelor in History</a></li> <li>&gt; <a href="#">Bachelor in Biomedicine</a></li> <li>&gt; <a href="#">Bachelor in Religious Studies</a></li> </ul>
Faculty or entity in charge:	ELEC